

Serial Number: 09/613,535

CRF Processing Date: 1/15/2001

Edited by: AN

Verified by: AN (STIC staff)

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

## RAW SEQUENCE LISTING

DATE: 05/24/2001

PATENT APPLICATION: US/09/613,535

TIME: 18:17:41

Input Set : A:\Pto.amc

Output Set: C:\CRF3\05242001\I613535.raw

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3 <110> APPLICANT: MURPHY, GEORGE L.
4   SETTERQUIST, ROBERT A.
5   ELLINGTON, ANDREW D.
7 <120> TITLE OF INVENTION: METHODS FOR RECOMBINATORIAL NUCLEIC ACID SYNTHESIS
9 <130> FILE REFERENCE: AMBI:055
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/613,535
12 <141> CURRENT FILING DATE: 2000-07-10
14 <160> NUMBER OF SEQ ID NOS: 5
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 23
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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32 <211> LENGTH: 28
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
38   Primer
40 <220> FEATURE:
41 <221> NAME/KEY: modified_base
42 <222> LOCATION: (24)..(28)
43 <223> OTHER INFORMATION: Thioester exists between these positions
45 <400> SEQUENCE: 2
46 gttttacaac gtcgtgactg ggaaaacc          28
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 24
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
56   Primer
58 <400> SEQUENCE: 3
59 ggttttccca gtcacgacgt tgta              24
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 28
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
69   Primer

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## RAW SEQUENCE LISTING

DATE: 05/24/2001

PATENT APPLICATION: US/09/613,535

TIME: 18:17:41

Input Set : A:\Pto.amc

Output Set: C:\CRF3\05242001\I613535.raw

71 <220> FEATURE:  
72 <221> NAME/KEY: modified\_base  
73 <222> LOCATION: (24)..(28)  
74 <223> OTHER INFORMATION: Thioester exists between these positions  
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80 <210> SEQ ID NO: 5  
81 <211> LENGTH: 24  
82 <212> TYPE: DNA  
83 <213> ORGANISM: Artificial Sequence  
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87 Primer  
89 <220> FEATURE:  
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91 <222> LOCATION: (16)..(19)  
92 <223> OTHER INFORMATION: Thioester exists between these positions  
94 <220> FEATURE:  
95 <221> NAME/KEY: modified\_base  
96 <222> LOCATION: (24)..(24)  
97 <223> OTHER INFORMATION: Diodeoxy cytosine exists at this position  
99 <400> SEQUENCE: 5  
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/613,535

DATE: 05/24/2001

TIME: 18:17:42

Input Set : A:\Pto.amc

Output Set: C:\CRF3\05242001\I613535.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

OIPe

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/613,535

DATE: 05/15/2001  
 TIME: 15:17:01

Input Set : A:\AMBI055.txt  
 Output Set: N:\CRF3\05152001\I613535.raw

**Does Not Comply  
 Corrected Diskette Needed**

3 <110> APPLICANT: MURPHY, GEORGE L.  
 4 SETTERQUIST, ROBERT A.  
 5 ELLINGTON, ANDREW D.  
 7 <120> TITLE OF INVENTION: METHODS FOR RECOMBINATORIAL NUCLEIC ACID SYNTHESIS  
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 24 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 25 Primer  
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 28 gttttccag tcacgacgtt gta 23  
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 38 Primer  
 40 <220> FEATURE:  
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 42 <222> LOCATION: (24)..(28)  
 43 <223> OTHER INFORMATION: Thioester exists between these positions  
 45 <400> SEQUENCE: 2  
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 50 <211> LENGTH: 24  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Artificial Sequence  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
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 58 <400> SEQUENCE: 3  
 59 ggttttccca gtcacgacgt tgta 24  
 62 <210> SEQ ID NO: 4  
 63 <211> LENGTH: 28  
 64 <212> TYPE: DNA  
 65 <213> ORGANISM: Artificial Sequence  
 67 <220> FEATURE:  
 68 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 69 Primer

RAW SEQUENCE LISTING                      DATE: 05/15/2001  
PATENT APPLICATION: US/09/613,535              TIME: 15:17:01

Input Set : A:\AMBI055.txt  
Output Set: N:\CRF3\05152001\I613535.raw

71 <220> FEATURE:  
72 <221> NAME/KEY: modified\_base  
73 <222> LOCATION: (24)..(28)  
74 <223> OTHER INFORMATION: Thioester exists between these positions  
76 <400> SEQUENCE: 4  
77 gttggacaac gtcgtgactg ggaaaacc                      28  
80 <210> SEQ ID NO: 5  
81 <211> LENGTH: 24  
82 <212> TYPE: DNA  
83 <213> ORGANISM: Artificial Sequence  
85 <220> FEATURE:  
86 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
87     Primer  
89 <220> FEATURE:  
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91 <222> LOCATION: (16)..(19)  
92 <223> OTHER INFORMATION: Thioester exists between these positions  
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96 <222> LOCATION: (24)..(24)  
97 <223> OTHER INFORMATION: Diodeoxy cytosine exists at this position  
99 <400> SEQUENCE: 5  
100 ggttttccca gtcacgacgt tgtc                      24

W--> 110 AMBI055.txt

VERIFICATION SUMMARY                      DATE: 05/15/2001  
PATENT APPLICATION: US/09/613,535        TIME: 15:17:02

Input Set : A:\AMBI055.txt  
Output Set: N:\CRF3\05152001\I613535.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:110 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1